



# Compartment Review Presentation

Baraga Forest Management Unit

Compartment 11048

Entry Year 2023

Acreage: 1,464

County Houghton

Management Area: Houghton Hardwoods

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**Stand Examiner:** Mike Brodeur

**Legal Description:**

T51N, R36W, Sections 21, 28 and 33.

**Identified Planning Goals:**

Central Houghton.

To maintain a healthy; sustainable forest with special consideration to wildlife habitat, fisheries habitat, and recreational needs.

**Soil and topography:**

The terrain is rolling to hilly with drainages running through deep gullies. Soils are Munising-Alcona-Liminga complex and Munising-Yalmer complex on the uplands. Lowlands are Lupton and Cathro mucks, and Tawas-Roscommon mucks.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:**

Most adjacent lands are managed for timber production by forest industry. There is one small private land inclusion.

**Unique Natural Features:**

None Identified.

**Archeological, Historical, and Cultural Features:**

Remnants of old railroad spur lines used for logging are in this compartment.

**Special Management Designations or Considerations:**

None Identified.

**Watershed and Fisheries Considerations:**

The West Branch of the Otter River is a high quality trout stream. Recent stream improvement and bank stabilization projects have been accomplished downstream of the Otter Siding Road in this compartment. Best Management practices should be observed when harvesting.

**Wildlife Habitat Considerations:**

Favor retention of oak, and mesic conifer in hardwood stands

**Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of coarse textured glacial till, lacustrine sand and gravel and an end moraine of fine-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Precambrian Jacobsville Sandstone sub crops below the glacial drift. There is not a current economic use for the Jacobsville, but it was used as a building stone in the past. The nearest gravel pit is located two miles to the southeast and potential appears limited. Abandoned copper mines and crushed basalt piles are located five miles to the west. This area has not been leased before. There is no economic oil and gas production in the UP.

2021: Several active sand/gravel pits occur within one to three miles west of the compartment including the state-owned Courtney Lake/Simar Airport Pit, which is currently leased to the Ontonagon County Road Commission. There may be potential for additional sand and gravel within the compartment. There is no known potential for metallic minerals beneath the compartment. There is no potential for economic oil and gas production in the UP.

**Vehicle Access:**

Access is from the Otter Siding Road with runs the entire length of the compartment connecting the Pike Lake Road to M-38. There are also several forest roads in varying conditions throughout the compartment.

**Survey Needs:**

No survey work needed.

**Recreational Facilities and Opportunities:**

The hunting opportunities in this compartment are excellent for big and small game hunting alike.

**Fire Protection:**

This is not a fire prone area.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

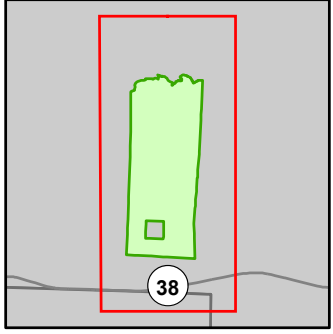
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

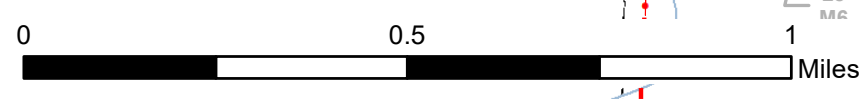
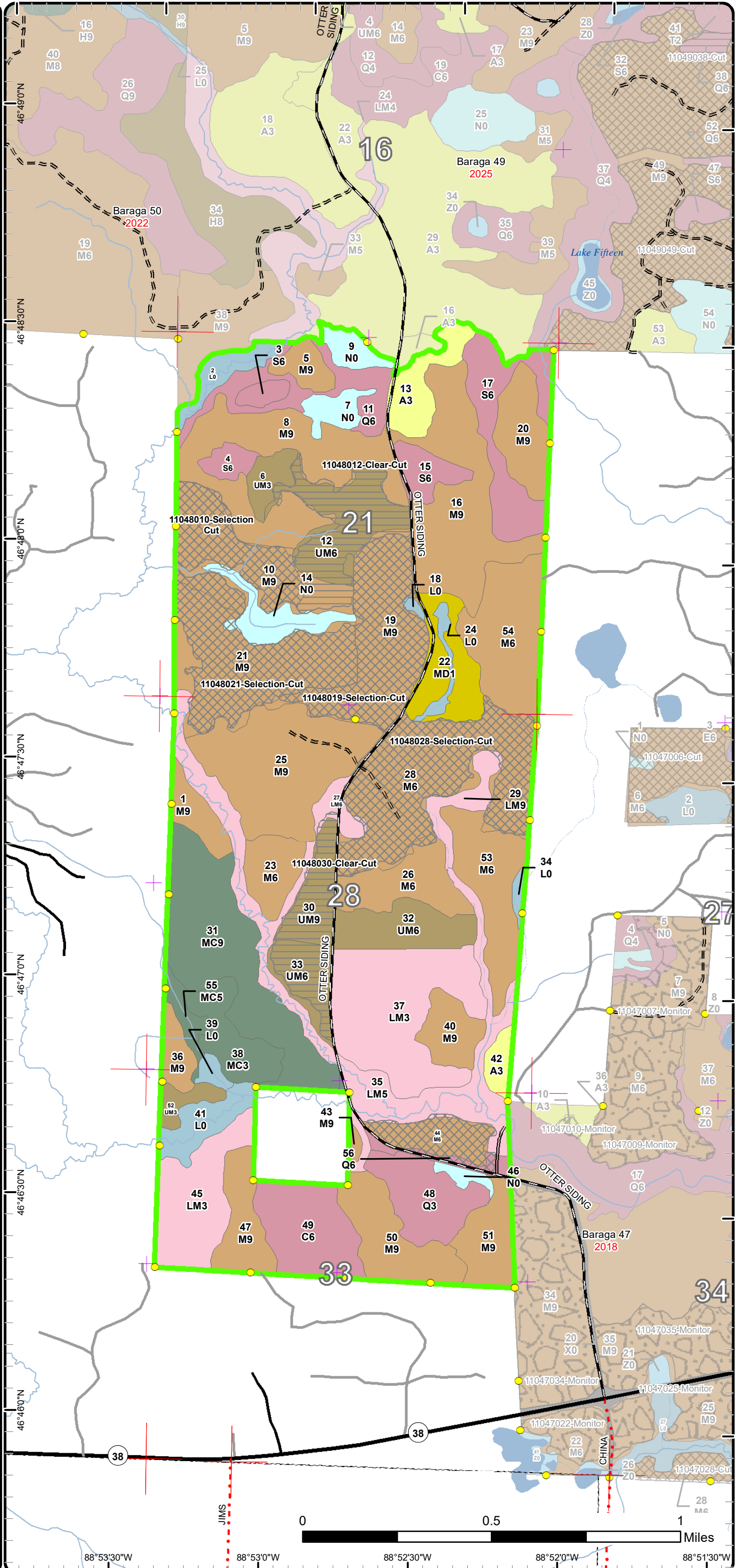
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 48  
 T51N,R36W, Sec: 21, 28, 33  
 County: Houghton  
 Unit: Baraga  
 Mgmt Area: Houghton Hardwoods  
 YOE: 2023  
 Acres: 1464.2 GIS Calculated  
 Examiner: Mike Brodeur  
 Map Revised: 9/20/2023  
 Map Phase: Post Review



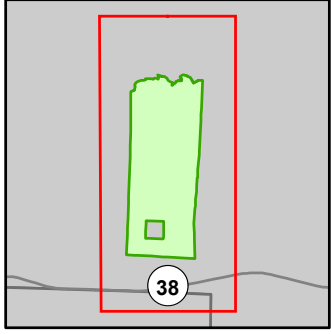
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Paved Road
- DNR - Management Access
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 622 - Lowland Shrub
- 623 - Emergent Wetland



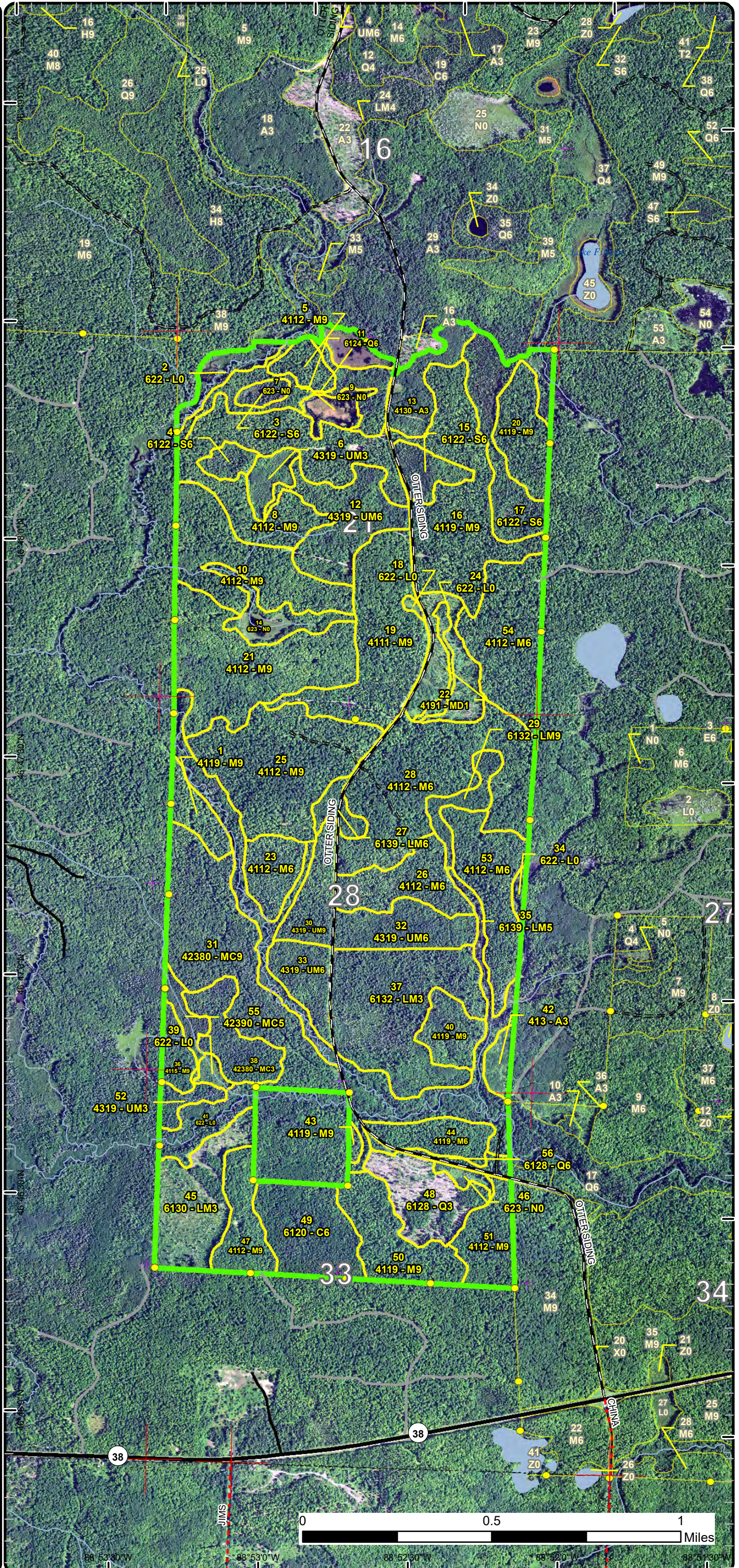
88°53'30"W 88°53'0"W 88°52'30"W 88°52'0"W 88°51'30"W

# Stand Boundary Map

Compartment: 48  
 T51N,R36W, Sec: 21, 28, 33  
 County: Houghton  
 Unit: Baraga  
 Mgmt Area: Houghton Hardwoods  
 YOE: 2023  
 Acres: 1464.2 GIS Calculated  
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 Map Revised: 9/20/2023  
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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unnever-Aged	Total
Aspen	0	0	7	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	37	0	0	0	0	0	37
Lowland Conifers	0	29	0	0	0	0	0	25	0	0	0	7	0	0	0	0	0	0	61
Lowland Mixed Forest	0	40	0	0	0	0	0	0	0	0	74	0	72	11	0	0	0	8	205
Lowland Shrub	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	11	0	0	12	0	0	0	0	35	58
Marsh	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Mixed Upland Deciduous	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	756	756
Upland Conifers	0	22	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	76	105
Upland Mixed Forest	0	7	0	9	0	0	25	0	19	0	19	0	0	0	0	0	0	36	114
<b>Total</b>	<b>76</b>	<b>123</b>	<b>7</b>	<b>28</b>	<b>0</b>	<b>0</b>	<b>25</b>	<b>25</b>	<b>19</b>	<b>18</b>	<b>93</b>	<b>7</b>	<b>84</b>	<b>48</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>911</b>	<b>1463</b>



## Report 2 – Treatment Summary

Baraga Mgt. Unit

Compartment 48

Year of Entry: 2023

Acres of Harvest

Total Compartment Acres: 1,464

Commercial Harvest - 338  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Northern Hardwood	0	261	0	0	0	0	0	0	0	261
Upland Mixed Forest	77	0	0	0	0	0	0	0	0	77
<b>Total</b>	<b>77</b>	<b>261</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>338</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	338	0	0	0	0	0	0	0	0	338
Next Step	0	0	0	0	0	0	338	0	0	338
<b>Total</b>	<b>338</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>338</b>	<b>0</b>	<b>0</b>	<b>676</b>



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Approved Treatments:**

<b>10</b>	<b>11048010- Selection Cut</b>	33.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	96	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, white pine and cedar where present. Oak should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to less than 100 sqft of BA. Around areas of heavy Hemlock, open up the drip edge to encourage hemlock seedling establishment. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current overstory.</p> <p><u>Regen:</u></p> <p><u>Other</u> Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>											
<b>12</b>	<b>11048012- Clear-Cut</b>	42.4	4319 - Mixed Upland Forest	Poetimber Well	66	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Harvest all species down to 4.6 inches DBH except oak, hemlock, cedar and white pine. Also, reserve elm if present. All hardwood =&gt;22" DBH and greater shall be retained.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the original stand's over story species prior to harvest.</p> <p><u>Regen:</u></p> <p><u>Other</u> Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>											
<b>19</b>	<b>11048019- Selection-Cut</b>	56.7	4111 - S.Maple, Hard Mast Association	Sawtimber Well	91	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, white pine and cedar where present. Oak should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to less than 100 sqft of BA. Around areas of heavy Hemlock, open up the drip edge to encourage hemlock seedling establishment. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current overstory.</p> <p><u>Regen:</u></p> <p><u>Other</u> Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>21</b>	<b>11048021- Selection-Cut</b>	67.0	4112 - Maple, Beech, Cherry Association	Sawtimber Well	104	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
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Prescription Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, white pine and cedar where present. Oak should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to less than 100 sqft of BA. Around areas of heavy Hemlock, open up the drip edge to encourage hemlock seedling establishment. Follow all guidelines set forth in "The Complete Marker".

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Any combination of the current overstory.  
Regen:

Other Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>28</b>	<b>11048028- Selection-Cut</b>	84.6	4112 - Maple, Beech, Cherry Association	Poletimber Well	81	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
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Prescription Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, white pine and cedar where present. Oak should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to less than 100 sqft of BA. Around areas of heavy Hemlock, open up the drip edge to encourage hemlock seedling establishment. Follow all guidelines set forth in "The Complete Marker".

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Any combination of the original stand's over story species prior to harvest.  
Regen:

Other Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>30</b>	<b>11048030- Clear-Cut</b>	34.6	4319 - Mixed Upland Forest	Sawtimber Well	93	81-110	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Two-Aged	No
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Prescription Harvest all species down to 4.6 inches DBH except hemlock, cedar and white pine. Also, reserve red oak if present. All hardwood =>22" DBH and greater shall be retained.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Any combination of the original stand's over story species prior to harvest.  
Regen:

Other Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>44 11048044- Selection-Cut</b>	19.4	4119 - Mixed Northern Hardwoods	Poletimber Well	75	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selectively thin hardwoods to 70-90 square feet of basal area. Favor oak, hemlock, white pine and cedar where present. Oak should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to less than 100 sqft of BA. Around areas of heavy Hemlock, open up the drip edge to encourage hemlock seedling establishment. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of the original stand's over story species prior to harvest.</p> <p><u>Other Comment:</u> Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

**Total Treatment 338**  
**Acres Proposed:**

## Report 4 – Site Conditions

Baraga Mgt. Unit  
Mike Brodeur : Examiner

Compartment: 48  
Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		5C	MC	2G	3J	3L
26	26	0	0	Aspen					
37	0	0	37	Cedar				0	37
61	32	0	29	Lowland Conifers				4	25
204	120	0	84	Lowland Mixed Forest	0			84	
39	25	0	14	Lowland Shrub				14	
58	0	0	58	Lowland Spruce/Fir			58		
37	37	0	0	Marsh					
25	25	0	0	Mixed Upland Deciduous					
756	736	20	1	Northern Hardwood	16	4		1	0
106	106	0	0	Upland Conifers					
115	115	0	0	Upland Mixed Forest					
1,464	1,221	20	223	Total Forested Acres	16	4	58	103	62
	83%	1%	15%	Relative Percent					

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	91	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Baraga Mgt. Unit  
Mike Brodeur: Examiner

Compartment: 48  
Year of Entry: 2023

4	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	37	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Edge corridor.							

# Report 4 – Site Conditions

Baraga Mgt. Unit  
Mike Brodeur : Examiner

Compartment: 48  
Year of Entry: 2023

10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	Minor Change in Acreage	4				
Comments:							
20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



### Report 5 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments
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**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area  
 HCVA = High Conservation Value Area  
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>1</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	12.1	92	81-110	N/A	cut in 1997 with "West Branch Hdwds" 2021: split from adjacent stand to the south. Poor quality.																																																												
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>White Pine</td><td>5</td><td>Log</td><td>18</td><td></td></tr> <tr><td>White Spruce</td><td>5</td><td>Pole/Log</td><td>11</td><td></td></tr> <tr><td>Black Cherry</td><td>10</td><td>Log/Pole</td><td>12</td><td></td></tr> <tr><td>Red Maple</td><td>20</td><td>Log</td><td>12</td><td></td></tr> <tr><td>Hemlock</td><td>10</td><td>Log</td><td>14</td><td></td></tr> <tr><td>Yellow Birch</td><td>5</td><td>Pole/Log</td><td>10</td><td></td></tr> <tr><td>Sugar Maple</td><td>45</td><td>Log</td><td>12</td><td>92</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	5	Log	18		White Spruce	5	Pole/Log	11		Black Cherry	10	Log/Pole	12		Red Maple	20	Log	12		Hemlock	10	Log	14		Yellow Birch	5	Pole/Log	10		Sugar Maple	45	Log	12	92	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Balsam Fir</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Quaking Aspen</td><td>Low</td><td>10 - 20 feet</td><td>Sapling</td></tr> <tr><td>Red Maple</td><td>Medium</td><td>10 - 20 feet</td><td>Sapling</td></tr> <tr><td>White Pine</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Sugar Maple</td><td>Full</td><td>10 - 20 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	Variable	Sapling	Quaking Aspen	Low	10 - 20 feet	Sapling	Red Maple	Medium	10 - 20 feet	Sapling	White Pine	Low	Variable	Sapling	Sugar Maple	Full	10 - 20 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																															
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<b>2</b>	622 - Lowland Shrub	Nonstocked	11.3		Unspecified	No	West Branch Otter River
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<b>3</b>	6122 - Black Spruce	Poletimber Well	4.7	84	51-80	N/A	2011: White Pine and Hemlock are just on the edges of the stand. S6 in the center. BS with a mix of RM and tamarack. WP, HM and cedar along the edges. YM is falling out.																																															
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<b>4</b>	6122 - Black Spruce	Poletimber Well	6.6	84	51-80	N/A																																																					
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<b>5</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.3	100	81-110	N/A	Cut in 2000 as part of "Lopi's Legacy" Cut in 2014 as part of "Lopi's Lot Hdwd". unit 6.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>6</b>	4319 - Mixed Upland Forest	Sapling Well	9.2	24	1-50	N/A	was clear-cut in 1999, but is now forested. 2021: Mixed upland stand with Aspen, RM, WP, HM and BF/WS. TM, BS and cedar along the edges
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	30	Sapling	3	24
Balsam Fir	10	Sapling	2	
White Pine	5	Sapling	2	
Hemlock	5	Sapling	2	
Red Maple	20	Sapling	2	
Tamarack	20	Sapling	2	
White Spruce	10	Sapling	2	

<b>7</b>	623 - Emergent Wetland	Nonstocked	8.7		Unspecified	No	
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<b>8</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	67.0	83	81-110	N/A	Was cut in 2000 with "Lopi's Legacy". Selection-cut in 2014 as part of "Lopi's Lot Hdwd". Units 4 and 5
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	2	XLog	18		Sugar Maple	Full	10 - 20 feet	Sapling
Hemlock	5	Log	16					
Black Cherry	5	Log/Pole	10					
Sugar Maple	50	Log/Pole	11	83				
Red Maple	33	Log/Pole	11					
Yellow Birch	2	Log	12					
White Spruce	3	Log/Pole	10					

<b>9</b>	623 - Emergent Wetland	Nonstocked	8.4		Immature	No	
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<b>10</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	49.3	96	81-110	N/A	West 1/2 of stand was "Otter Siding Road North", selection cut in 2003, unit 4. East 1/2 was "Lopi's Legacy"
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	3	Log	16		Sugar Maple	Full	10 - 20 feet	Sapling
Sugar Maple	68	Log	13	96	Balsam Fir	Medium	Variable	Sapling
Red Maple	18	Log	13		Red Maple	Low	10 - 20 feet	Sapling
Yellow Birch	2	Log/Pole	12					
White Spruce	2	Log/Pole	10					
Northern White Cedar	2	Log	12					
White Pine	3	XLog	20					
Black Cherry	2	Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>11</b>	6124 - Lowland Spruce-Fir	Poletimber Well	25.1	66	81-110	N/A	2011: Old fence line running north-south through stand. Area may have been attempted to be farmed in the early part of the century (still open on the 1938 photos). 2021: areas of stand resemble S6, but the stand is a mix bag of everything. Aspen is declining. Would make a good chipper job. Clearcut stand leaving WP, Cedar and Hemlock (and Oak if any). The goal is to increase stem density and make it more attractive to wildlife.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	30	Pole	7	66
White Spruce	10	Log	10	
Black Spruce	20	Pole	9	
Northern White Cedar	5	Log	12	
Tamarack	5	Pole	9	
White Pine	10	Log	16	
Quaking Aspen	5	Log	14	
Black Cherry	5	Pole	7	
Red Maple	5	Pole	7	
Hemlock	5	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Full	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Black Spruce	Low	Variable	Sapling

BS/BF stand, Mix of everything, could but CC or save for diversity.

<b>12</b>	4319 - Mixed Upland Forest	Poletimber Well	36.2	66	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	5	Pole	8	
White Pine	10	Log/Pole	10	
Balsam Fir	20	Pole	7	
Red Oak	5	Pole	8	
Quaking Aspen	10	Log	12	
Yellow Birch	5	Pole	8	
Sugar Maple	5	Pole	6	
Hemlock	18	Log/Pole	10	
Red Maple	21	Pole	9	66
Black Cherry	1	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	Variable	Sapling
Balsam Fir	Full	Variable	Sapling
Red Oak	Low	Variable	Sapling
Yellow Birch	Low	Variable	Sapling

<b>13</b>	4130 - Aspen	Sapling Well	19.3	24	Immature	N/A	2011: Clear-cut in 1999 with "Lopi's Legacy", unit 9.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	2	Sapling	2	
White Spruce	2	Sapling	3	
White Pine	2	Sapling	2	
Quaking Aspen	90	Sapling	3	24
Black Cherry	2	Sapling	3	
Red Maple	2	Sapling	3	

<b>14</b>	623 - Emergent Wetland	Nonstocked	15.9		Unspecified	No	Tributary flowing into West Branch Otter River.
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																											
<b>15</b>	6122 - Black Spruce	Poletimber Well	11.8	112	51-80	N/A	2021: Edges of stand have the White Pine, Hemlock and White Spruce, classic S6 in the middle. Leave for diversity since there are not too many S6's in this country.																																																																											
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22	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	25.2	8	Immature	N/A	Grouse Grove, 11-024-13-01, Clear-cut in winter 2013-14'. Stand is growing in what was an old farm field in the 1938 photos.																																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
24	622 - Lowland Shrub	Nonstocked	4.4		Unspecified	No	Start of a tributary flowing into West Branch Otter River.

25	4112 - Maple, Beech, Cherry Association	Sawtimber Well	70.1	104	81-110	N/A	Cut in 1997 with "West Branch Hdwds" Otter Acres, 11-025-13-01 cut in summer 2014.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	5	Log	14		Red Maple	Low	10 - 20 feet	Sapling
Red Maple	20	Log/Pole	12		Ironwood	Medium	5 - 10 feet	Sapling
Yellow Birch	2	Log/Pole	10		Sugar Maple	Full	10 - 20 feet	Sapling
Hemlock	5	Log	16		Balsam Fir	Medium	Variable	Sapling
White Spruce	3	Log	10					
Sugar Maple	60	Log/Pole	12	104				
Black Cherry	3	Log/Pole	12					
White Pine	2	XLog	20					

26	4112 - Maple, Beech, Cherry Association	Poletimber Well	26.9	81	81-110	N/A	selection cut in 2003 with "Otter Siding Mix". Aspen was removed resulting into a very brushy stand. BA's were around 90. This stand was split from stand to the north.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	2	Pole	6		Red Maple	High	10 - 20 feet	Sapling
Red Maple	47	Log/Pole	10	81	Balsam Fir	Medium	Variable	Sapling
Hemlock	5	Log	14		Sugar Maple	Full	10 - 20 feet	Sapling
Northern White Cedar	2	Log/Pole	12					
Yellow Birch	2	Log/Pole	12					
White Spruce	5	Log/Pole	12					
White Pine	2	Log	16					
Sugar Maple	30	Log/Pole	10	81				
Black Cherry	5	Pole/Log	10					

27	6139 - Mixed Lowland Forest	Poletimber Well	7.6	77	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	10	Pole	8		Red Maple	Medium	Variable	Sapling
White Pine	10	XLog	18		Black Ash	High	Variable	Sapling
Yellow Birch	5	Pole/Log	9		Northern White Cedar	Low	Variable	Pole
White Spruce	10	Log/Pole	12		Balsam Fir	High	Variable	Sapling
Balsam Fir	10	Pole	9		Yellow Birch	Medium	Variable	Sapling
Hemlock	15	Log	14					
Red Maple	20	Pole	8	77				
Black Cherry	1	Pole	8					
Black Ash	19	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**28** 4112 - Maple, Beech, Cherry Association Poletimber Well 85.2 81 111-140 N/A 2011: North half cut in 2003 with "Otter Siding Road North" and South half cut in 2003 with "Otter Siding Mix".

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	5	Log	14		Red Maple	High	10 - 20 feet	Sapling
White Pine	2	Log	16		Sugar Maple	Full	10 - 20 feet	Sapling
Northern White Cedar	2	Log/Pole	12		Balsam Fir	Medium	Variable	Sapling
Yellow Birch	2	Log/Pole	12					
White Spruce	5	Log/Pole	12					
Balsam Fir	2	Pole	6					
Red Maple	27	Log/Pole	10					
Sugar Maple	50	Log/Pole	10	81				
Black Cherry	5	Pole/Log	10					

**29** 6132 - Mixed Lowland Forest with Cedar Sawtimber Well 11.2 123 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole	8		Sugar Maple	Full	Variable	Sapling
White Spruce	10	Log/Pole	12		Balsam Fir	Medium	Variable	Sapling
Hemlock	5	Log	16		White Spruce	Low	5 - 10 feet	Sapling
Black Ash	15	Pole	8		Black Ash	Low	>20 feet	Pole
Red Maple	20	Pole/Log	10					
Yellow Birch	10	Log/Pole	12					
Sugar Maple	5	Pole	8					
Northern White Cedar	30	Log	16	123				

**30** 4319 - Mixed Upland Forest Sawtimber Well 19.1 93 81-110 N/A Cut in 1997 with "West Branch Hdws".

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	3	XLog	24		White Pine	Low	Variable	Sapling
Yellow Birch	5	Log	14		Sugar Maple	Medium	10 - 20 feet	Sapling
Hemlock	35	Log/Pole	16	93	Red Maple	Medium	10 - 20 feet	Pole
Northern White Cedar	3	Log/Pole	12		Balsam Fir	High	Variable	Sapling
White Spruce	13	Log/Pole	10					
Sugar Maple	10	Pole/Log	9	93				
Black Cherry	3	Pole/Log	10					
Balsam Fir	2	Pole	8					
Red Maple	26	Pole/Log	8	93				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**31** 42380 - Non Pine Upland Conifer, Mixed Deciduous Sawtimber Well 76.0 92 81-110 N/A cut in 1997 with "West Branch Hdwds"

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log	18		Quaking Aspen	Low	10 - 20 feet	Sapling
Red Maple	15	Log	12		Red Maple	Medium	10 - 20 feet	Sapling
White Spruce	5	Pole/Log	11		Sugar Maple	Full	10 - 20 feet	Sapling
Yellow Birch	5	Pole/Log	10		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	5	Pole	8		White Pine	Low	Variable	Sapling
Northern White Cedar	10	Pole/Log	11					
Hemlock	40	Log	14	92				
Sugar Maple	10	Log	12	92				
Black Cherry	5	Log/Pole	12					

**32** 4319 - Mixed Upland Forest Poletimber Well 25.4 58 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole	6		Balsam Fir	Full	Variable	Sapling
White Spruce	10	Log/Pole	12		Red Maple	Medium	Variable	Sapling
White Pine	5	XLog/Log	24		Sugar Maple	Medium	Variable	Sapling
Sugar Maple	5	Pole	5					
Black Ash	5	Pole	5					
Hemlock	20	Log	12					
Quaking Aspen	10	Pole	7					
Red Maple	25	Pole	6	58				
Northern White Cedar	10	Pole/Log	10					

**33** 4319 - Mixed Upland Forest Poletimber Well 18.5 75 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	15	Log/Pole	12		White Spruce	Low	Variable	Pole
Red Maple	40	Log/Pole	12	75	Black Ash	Low	10 - 20 feet	Sapling
Hemlock	10	Log	14		Tag Alder	Medium	10 - 20 feet	Tall Shrub
Balsam Fir	2	Pole	8		White Pine	Low	Variable	Pole
White Pine	3	XLog/Log	24		Red Maple	High	Variable	Sapling
Black Ash	5	Pole	8		Balsam Fir	Full	Variable	Pole
Yellow Birch	10	Log	14					
White Spruce	15	Log/Pole	12					

**34** 622 - Lowland Shrub Nonstocked 2.6 Unspecified No Tributary flowing into West Branch Otter River.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**35** 6139 - Mixed Lowland Forest Poletimber Medium 74.0 93 51-80 N/A West Branch Otter River Corridor.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	5	Log/Pole	11		Red Maple	Medium	Variable	Sapling
Black Spruce	10	Pole	8		Balsam Fir	High	Variable	Sapling
Balsam Fir	5	Pole	8		Northern White Cedar	Low	Variable	Pole
White Spruce	5	Log/Pole	10		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	15	Log	14					
Sugar Maple	5	Log/Pole	12					
Hemlock	10	Log	16					
White Pine	5	XLog	24					
Red Maple	21	Log/Pole	12	93				
Black Ash	19	Pole	8					

**36** 4115 - Y.Birch, Hemlock NH Sawtimber Well 9.4 94 81-110 N/A Fast mix, Selection cut in 2016ish. Unit 1.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	10	Log	16		Northern White Cedar	Low	Variable	Pole
White Spruce	10	Log/Pole	12		White Spruce	Low	Variable	Sapling
Northern White Cedar	5	Log/Pole	12		Hemlock	Low	Variable	Pole
Hemlock	15	Log	14		Balsam Fir	High	Variable	Pole
White Pine	5	XLog	24					
Red Maple	45	Log	14	94				
Sugar Maple	5	Log	12					
Black Cherry	5	Pole/Log	10					

**37** 6132 - Mixed Lowland Forest with Cedar Sapling Well 71.5 116 1-50 N/A cut in 2004 with "Otter Swamp".

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	24	Log/Pole	16		Tag Alder	High	5 - 10 feet	Tall Shrub
Black Cherry	7	Sapling	1					
Red Maple	24	Sapling	1	19				
Balsam Fir	3	Sapling	1					
Yellow Birch	10	Sapling	1					
Northern White Cedar	25	Pole/Log	12	116				
White Pine	2	Sapling	1					
White Pine	5	Log	20					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**38** 42380 - Non Pine Upland Conifer, Mixed Deciduous      Sapling Well      22.3      7      Immature      N/A      Fast Mix, Clear-cut in 2016ish.

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	10	Sapling	1	7
Black Spruce	5	Sapling	1	
Northern White Cedar	10	Log/Pole	12	
Quaking Aspen	5	Log/Pole	11	
Red Maple	20	Sapling	1	7
White Pine	5	Log	18	
Sugar Maple	5	Sapling	1	
Tamarack	6	Sapling	1	
Yellow Birch	5	Sapling	1	
Hemlock	19	Log/Pole	14	
Balsam Fir	10	Sapling	1	7

**39** 622 - Lowland Shrub      Nonstocked      3.4      Unspecified      No

**40** 4119 - Mixed Northern Hardwoods      Sawtimber Well      15.9      103      111-140      N/A      2011: Stand is silviculturally ready but hold for until next rotation and cut with hardwood stand 1/4 mile to the north. Stand is poor quality.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	5	Log/Pole	12		Red Maple	Low	Variable	Sapling
Balsam Fir	2	Pole	8		Sugar Maple	High	Variable	Sapling
Northern White Cedar	5	Pole/Log	10		White Pine	Low	10 - 20 feet	Sapling
White Pine	5	XLog	30		Northern White Cedar	Low	Variable	Pole
Sugar Maple	30	Log/Pole	14		Balsam Fir	Medium	>20 feet	Pole
Black Ash	3	Pole/Log	10					
Red Maple	36	Log/Pole	14	103				
Black Cherry	2	Pole	8					
Yellow Birch	2	Log/Pole	12					
Hemlock	10	Log	12					

**41** 622 - Lowland Shrub      Nonstocked      15.8      Unspecified      No      Tributary to West Branch Otter River.

**42** 413 - Aspen      Sapling Well      6.8      12      Immature      N/A      2011: Recently Harvested (Fall/Winter 2010/2011). Aspen Management Objective.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**43**    4119 - Mixed Northern Hardwoods    Sawtimber Well    1.9    106    81-110    N/A    2011: There is access staying on state just south of the south bridge on the Otter siding road. There is an old road there that is water barred.  
2021: Fast Mix, unit 3, Selection cut in 2014.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	2	Log	14		White Spruce	Medium	Variable	Pole
Black Cherry	10	Pole/Log	10		Balsam Fir	Medium	Variable	Pole
Yellow Birch	10	Log	14		Sugar Maple	Low	Variable	Sapling
White Spruce	2	Log	14		Yellow Birch	Medium	Variable	Pole
Red Maple	10	Log/Pole	12					
Sugar Maple	56	Log	14	106				
Northern White Cedar	10	Pole/Log	12					

**44**    4119 - Mixed Northern Hardwoods    Poletimber Well    17.1    75    111-140    N/A    Cut in 2007 with "Otter Siding Mix"

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log	16		Red Maple	Medium	5 - 10 feet	Sapling
Northern White Cedar	10	Pole/Log	10		Yellow Birch	Low	Variable	Sapling
Red Maple	40	Pole/Log	10	75	Balsam Fir	Medium	Variable	Sapling
White Spruce	10	Pole	8		Sugar Maple	Medium	Variable	Sapling
Yellow Birch	2	Pole/Log	10					
Black Cherry	3	Pole	8					
Sugar Maple	30	Log/Pole	12					

**45**    6130 - Fir, Aspen, Maple    Sapling Well    39.9    7    Immature    N/A    Fast Mix, Clear-cut in 2016ish.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Sapling	1		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	10	Pole/Log	9					
Hemlock	3	Log/Pole	12					
White Pine	2	Log/XLog	15					
Black Ash	5	Sapling	1	7				
Yellow Birch	5	Sapling	1					
Sugar Maple	5	Sapling	1	7				
Red Maple	35	Sapling	1	7				
Quaking Aspen	5	Sapling	1					
Balsam Fir	15	Sapling	1	7				
White Spruce	5	Sapling	1					

**46**    623 - Emergent Wetland    Nonstocked    3.6       Unspecified    No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**47** 4112 - Maple, Beech, Cherry Association Sawtimber Well 21.4 79 81-110 N/A 2021: Fast Mix. Selection cut in 2016. good access off private land to the south.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	40	Log/Pole	12	79	Red Maple	Medium	Variable	Sapling
Yellow Birch	5	Log	14		Balsam Fir	Medium	Variable	Pole
Paper Birch	5	Pole/Log	10		Sugar Maple	Full	Variable	Sapling
White Spruce	5	Log	12					
Hemlock	2	Log	16					
Northern White Cedar	3	Pole/Log	10					
Red Maple	25	Pole/Log	10					
Black Cherry	15	Pole/Log	10					

**48** 6128 - Lowland Coniferous, Mixed Sapling Well 29.3 7 Immature N/A Fast mix, Clear-cut in 2015-17, unit 4

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	3	Sapling	1	
White Spruce	15	Sapling	1	
Hemlock	13	Log	14	
Northern White Cedar	13	Pole/Log	10	
Yellow Birch	5	Sapling	1	
Balsam Fir	20	Sapling	1	7
Sugar Maple	2	Sapling	1	
Black Ash	21	Sapling	1	7
Red Maple	5	Sapling	1	7
Black Cherry	3	Sapling	1	

**49** 6120 - Lowland Cedar Poletimber Well 36.9 123 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	10	Pole	8		Sugar Maple	Medium	Variable	Sapling
Black Spruce	4	Pole/Log	10		Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	4	Pole	8		Black Ash	Low	Variable	Sapling
Sugar Maple	2	Pole	8		Balsam Fir	High	Variable	Sapling
Northern White Cedar	50	Pole/Log	10	123	Red Maple	Medium	Variable	Sapling
Red Maple	10	Pole/Log	10					
White Spruce	10	Log	14					
Black Ash	10	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>50</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	32.2	76	81-110	N/A	cut in 2007 with "Otter Siding Mix". 2021: Hold till 2033 to cut with hardwood to the west.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Black Cherry	10	Log/Pole	10			Red Maple	Medium	5 - 10 feet	Sapling
	Red Maple	20	Log/Pole	12			Black Cherry	Low	Variable	Sapling
	Sugar Maple	45	Log/Pole	12	76		Balsam Fir	Low	Variable	Sapling
	Balsam Fir	5	Pole	8			Sugar Maple	High	5 - 10 feet	Sapling
	Hemlock	5	Log	14						
	White Spruce	5	Log/Pole	12						
	Yellow Birch	5	Pole/Log	9						
	Northern White Cedar	5	Pole/Log	9						

<b>51</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	21.0	88	81-110	N/A	Cut in 1999 with "Otter Siding Block" 11-011-98-01. 2021: "38 Special", Selection cut in 2020 by Accaicca with adjacent compartment.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Red Maple	30	Log/Pole	12			Balsam Fir	Low	Variable	Sapling
	Yellow Birch	5	Pole	8			Sugar Maple	Medium	10 - 20 feet	Sapling
	White Spruce	5	Pole/Log	10			Red Maple	High	10 - 20 feet	Sapling
	Northern White Cedar	5	Pole/Log	10			Black Cherry	Medium	Variable	Sapling
	Black Cherry	5	Pole/Log	10						
	Sugar Maple	50	Log/Pole	12	88					

<b>52</b>	4319 - Mixed Upland Forest	Sapling Well	7.0	7	Immature	N/A	2021: Fast mix, Clear-cut in 2016ish. unit 2.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Black Spruce	5	Sapling	1						
	Northern White Cedar	5	Log/Pole	12						
	Sugar Maple	5	Sapling	1						
	Tamarack	6	Sapling	1						
	Balsam Fir	10	Sapling	1	7					
	Quaking Aspen	5	Log/Pole	11						
	Red Maple	34	Sapling	1	7					
	White Pine	5	Log	18						
	White Spruce	10	Sapling	1	7					
	Yellow Birch	5	Sapling	1						
	Hemlock	10	Log/Pole	14						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>53</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	37.1	81	81-110	N/A	selection cut in 2003 with "Otter Siding Mix". Aspen was removed resulting into a very brushy stand. BA's were around 90. This stand was split from stand to the north.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Yellow Birch		2	Log/Pole	12		Balsam Fir	
Balsam Fir		2	Pole	6		Medium	
Hemlock		5	Log	14		Variable	
Northern White Cedar		2	Log/Pole	12		Sapling	
White Spruce		5	Log/Pole	12		Red Maple	
Red Maple		47	Log/Pole	10	81	High	
Sugar Maple		30	Log/Pole	10	81	10 - 20 feet	
Black Cherry		5	Pole/Log	10		Sapling	
White Pine		2	Log	16		Full	
						10 - 20 feet	
						Sapling	

<b>54</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	45.6	81	81-110	N/A	"Otter Siding Road North" Selection cut in 2003. Aspen was removed resulting into a very brushy stand. BA's were around 90. This stand was split from stand to the South.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Hemlock		5	Log	14		Red Maple	
Sugar Maple		40	Pole/Log	10	81	High	
Black Cherry		5	Pole/Log	10		10 - 20 feet	
Red Maple		37	Pole/Log	10		Sapling	
Yellow Birch		2	Log/Pole	12		Full	
Balsam Fir		2	Pole	6		10 - 20 feet	
White Pine		2	Log	16		Sapling	
Northern White Cedar		2	Log/Pole	12		Medium	
White Spruce		5	Log/Pole	12		Variable	
						Sapling	

<b>55</b>	42390 - Mixed Non-Pine Upland Conifers	Poletimber Medium	7.3	85	81-110	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Yellow Birch		2	Pole	7		Red Maple	
White Spruce		5	Log	10		Medium	
Black Spruce		5	Pole	8		Variable	
Northern White Cedar		50	Log/Pole	12	85	Sapling	
Tamarack		6	Log/Pole	11		Pole	
Sugar Maple		5	Pole/Log	10		Balsam Fir	
White Pine		2	XLog	18		High	
Balsam Fir		5	Pole	8		Variable	
Red Maple		10	Pole	8	85	Low	
Hemlock		10	Log/Pole	14		Variable	
						Pole	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**56** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 6.6 103 81-110 N/A Drainage running into West Branch Otter River.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	5	Log	14	
White Spruce	15	Log	12	
Balsam Fir	20	Pole	8	
Northern White Cedar	13	Pole/Log	10	
Red Maple	5	Pole/Log	10	
Black Cherry	3	Pole	7	
Sugar Maple	2	Pole	8	
Black Ash	21	Pole/Log	10	103
Black Spruce	3	Pole	8	
Hemlock	13	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Low	Variable	Pole
Red Maple	Low	Variable	Sapling
Balsam Fir	High	Variable	Pole
Sugar Maple	Low	>20 feet	Sapling
Yellow Birch	Low	Variable	Pole